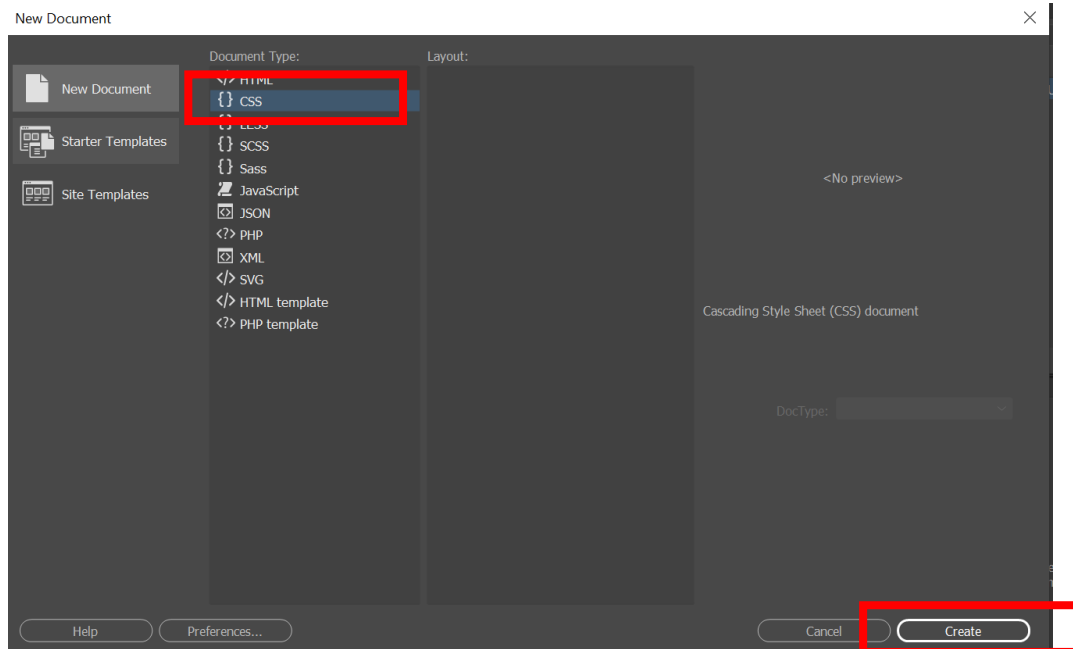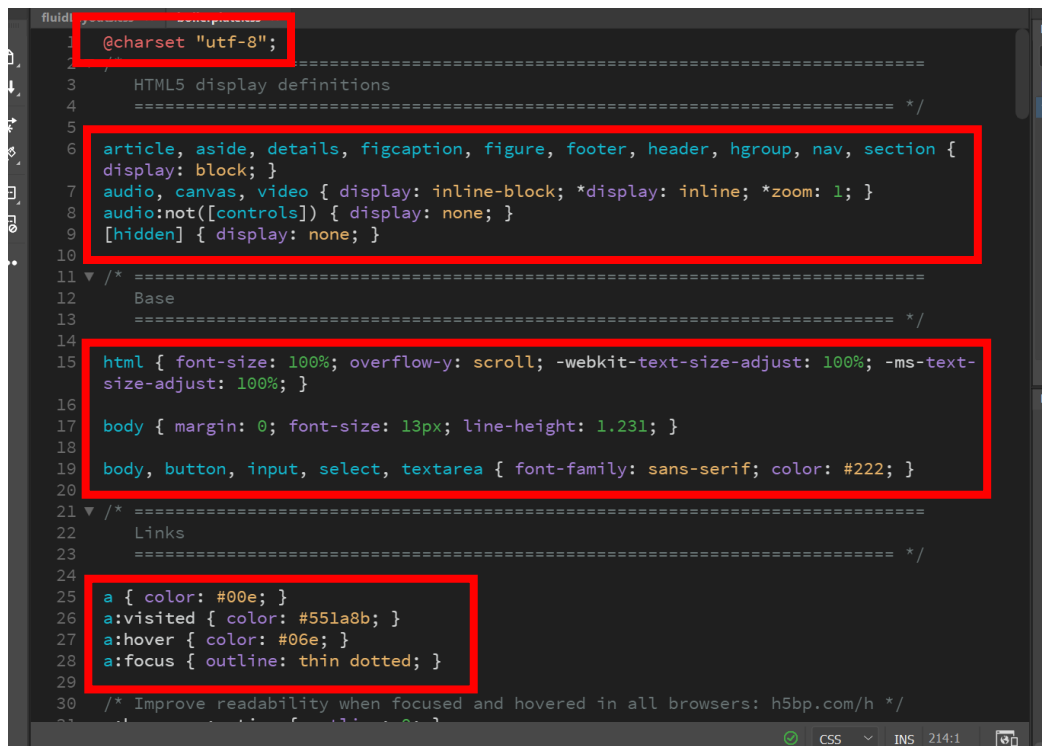Lab 1

Part A(create boilerplate.css and fluidlayout.css)

1. Boilerplate.css
   Create new css document and save it as boilerplate.css(file > new > css)

2. Type in the following codes

```css
33
34 ▼ /* =========================================================================
35    Typography
36    ========================================================================= */
37
38 abbr[title] { border-bottom: 1px dotted; }
39
40 b, strong { font-weight: bold; }
41
42 blockquote { margin: 1em 40px; }
43
44 dfn { font-style: italic; }
45
46 hr { display: block; height: 1px; border: 0; border-top: 1px solid #ccc; margin: 1em
   0; padding: 0; }
47
48 ins { background: #ff9; color: #000; text-decoration: none; }
49
50 mark { background: #ff0; color: #000; font-style: italic; font-weight: bold; }
51
52
53 pre, code, kbd, samp { font-family: monospace, monospace; _font-family: 'courier new',
   monospace; font-size: 1em; }
54
55 /* Improve readability of pre-formatted text in all browsers */
56 pre { white-space: pre; white-space: pre-wrap; word-wrap: break-word; }
57
58 q { quotes: none; }
59 q:before, q:after { content: ""; content: none; }
60
61 small { font-size: 85%; }
62
63 /* Position subscript and superscript content without affecting line-height:
```

```css
62
63    /* Position subscript and superscript content without affecting line-height:
      h5bp.com/k */
64    sub, sup { font-size: 75%; line-height: 0; position: relative; vertical-align:
      baseline; }
65    sup { top: -0.5em; }
66    sub { bottom: -0.25em; }
67
68
69 ▼ /* =========================================================================
70    Lists
71    ========================================================================= */
72
73    ul, ol { margin: 1em 0; padding: 0 0 0 40px; }
74    dd { margin: 0 0 0 40px; }
75    nav ul, nav ol { list-style: none; list-style-image: none; margin: 0; padding: 0; }
76
77
78 ▼ /* =========================================================================
79    Embedded content
80    ========================================================================= */
81
82 ▼ /*
83    * 1. Improve image quality when scaled in IE7: h5bp.com/d
84    * 2. Remove the gap between images and borders on image containers: h5bp.com/e
85    */
86
87    img { border: 0; -ms-interpolation-mode: bicubic; vertical-align: middle; }
88
89 ▼ /*
90    * Correct overflow not hidden in IE9
91    */
92
```

```css
 92
 93    svg:not(:root) { overflow: hidden; }
 94
 95
 96  ▼ /* ==============================================================================
 97       Figures
 98       ============================================================================== */
 99
100    figure { margin: 0; }
101
102
103  ▼ /* ==============================================================================
104       Forms
105       ============================================================================== */
106
107    form { margin: 0; }
108    fieldset { border: 0; margin: 0; padding: 0; }
109
110    /* Indicate that 'label' will shift focus to the associated form element */
111    label { cursor: pointer; }
112
113  ▼ /*
114     * 1. Correct color not inheriting in IE6/7/8/9
115     * 2. Correct alignment displayed oddly in IE6/7
116     */
117
118    legend { border: 0; *margin-left: -7px; padding: 0; }
119
120  ▼ /*
```

```css
125
126    button, input, select, textarea { font-size: 100%; margin: 0; vertical-align:
       baseline; *vertical-align: middle; }
127
128  ▼ /*
129     * 1. Define line-height as normal to match FF3/4 (set using !important in the UA
       stylesheet)
130     * 2. Correct inner spacing displayed oddly in IE6/7
131     */
132
133    button, input { line-height: normal; *overflow: visible; }
134
135  ▼ /*
136     * Reintroduce inner spacing in 'table' to avoid overlap and whitespace issues in
       IE6/7
137     */
138
139    table button, table input { *overflow: auto; }
140
141  ▼ /*
142     * 1. Display hand cursor for clickable form elements
143     * 2. Allow styling of clickable form elements in iOS
144     */
145
146    button, input[type="button"], input[type="reset"], input[type="submit"] { cursor:
       pointer; -webkit-appearance: button; }
147
148  ▼ /*
149     * Consistent box sizing and appearance
150     */
151
152    input[type="checkbox"], input[type="radio"] { box-sizing: border-box; }
```

3

```css
fluidLayouts.css ×    boilerplate.css ×

150    */
151
152    input[type="checkbox"], input[type="radio"] { box-sizing: border-box; }
153    input[type="search"] { -webkit-appearance: textfield; -moz-box-sizing: content-box; -
       webkit-box-sizing: content-box; box-sizing: content-box; }
154    input[type="search"]::-webkit-search-decoration { -webkit-appearance: none; }
155
156 ▼ /*
157     * Remove inner padding and border in FF3/4: h5bp.com/l
158     */
159
160    button::-moz-focus-inner, input::-moz-focus-inner { border: 0; padding: 0; }
161
162 ▼ /*
163     * 1. Remove default vertical scrollbar in IE6/7/8/9
164     * 2. Allow only vertical resizing
165     */
166
167    textarea { overflow: auto; vertical-align: top; resize: vertical; }
168
169    /* Colors for form validity */
170    input:valid, textarea:valid {  }
171    input:invalid, textarea:invalid { background-color: #f0dddd; }
172
173
174 ▼ /* ================================================================================
175     Tables
176     ================================================================================ */
177
178    table { border-collapse: collapse; border-spacing: 0; }
179    td { vertical-align: top; }
180
```

```css
fluidLayouts.css ×    boilerplate.css ×

186 ▼ /* ==|== non-semantic helper classes =========================================
187     Please define your styles before this section.
188     ========================================================================= */
189
190    /* For image replacement */
191    .ir { display: block; border: 0; text-indent: -999em; overflow: hidden; background-
       color: transparent; background-repeat: no-repeat; text-align: left; direction: ltr; }
192    .ir br { display: none; }
193
194    /* Hide from both screenreaders and browsers: h5bp.com/u */
195    .hidden { display: none !important; visibility: hidden; }
196
197    /* Hide only visually, but have it available for screenreaders: h5bp.com/v */
198    .visuallyhidden { border: 0; clip: rect(0 0 0 0); height: 1px; margin: -1px; overflow:
       hidden; padding: 0; position: absolute; width: 1px; }
199
200    /* Extends the .visuallyhidden class to allow the element to be focusable when
       navigated to via the keyboard: h5bp.com/p */
201    .visuallyhidden.focusable:active, .visuallyhidden.focusable:focus { clip: auto;
       height: auto; margin: 0; overflow: visible; position: static; width: auto; }
202
203    /* Hide visually and from screenreaders, but maintain layout */
204    .invisible { visibility: hidden; }
205
206    /* Contain floats: h5bp.com/q */
207    .clearfix:before, .clearfix:after { content: ""; display: table; }
208    .clearfix:after { clear: both; }
209    .clearfix { zoom: 1; }
210
211
212 ▼ /* ==|== print styles =========================================================
213     Print styles.
```

```
fluidLayouts.css ×    boilerplate.css ×
202    height. auto, margin. 0, overflow. visible, position. static, width. auto, }
203    /* Hide visually and from screenreaders, but maintain layout */
204    .invisible { visibility: hidden; }
205
206    /* Contain floats: h5bp.com/q */
207    .clearfix:before, .clearfix:after { content: ""; display: table; }
208    .clearfix:after { clear: both; }
209    .clearfix { zoom: 1; }
210
211
212 ▼ /* ==|== print styles =======================================================
213        Print styles.
214        ================================================================== */
215
216 ▼   @media print {
217      * { background: transparent !important; color: black !important; text-shadow: none
         !important; filter:none !important; -ms-filter: none !important; } /* Black prints
         faster: h5bp.com/s */
218      a, a:visited { text-decoration: underline; }
219      a[href]:after { content: " (" attr(href) ")"; }
220      abbr[title]:after { content: " (" attr(title) ")"; }
221      .ir a:after, a[href^="javascript:"]:after, a[href^="#"]:after { content: ""; }  /*
         Don't show links for images, or javascript/internal links */
222      pre, blockquote { border: 1px solid #999; page-break-inside: avoid; }
223      thead { display: table-header-group; } /* h5bp.com/t */
224      tr, img { page-break-inside: avoid; }
225      img { max-width: 100% !important; }
226      @page { margin: 0.5cm; }
227      p, h2, h3 { orphans: 3; widows: 3; }
228      h2, h3 { page-break-after: avoid; }
229    }
230
```

3. Create a new css file for fluidLayouts.css and type the following codes

```
fluidLayouts.css* ×    boilerplate.css ×
1     @charset "UTF-8";
2     /* Simple fluid media
3     */
4 ▼   img, object, embed, video {
5         max-width: 100%;
6     }
7     /* IE 6 does not support max-width so default to width 100% */
8 ▼   .ie6 img {
9         width:100%;
10    }
11
12    /* Mobile Layout: 480px and below. */
13
14 ▼  .gridContainer {
15        margin-left: auto;
16        margin-right: auto;
17        width: 87.36%;
18        padding-left: 1.82%;
19        padding-right: 1.82%;
20    }
21 ▼  #LayoutDiv1 {
22        clear: both;
23        float: left;
24        margin-left: 0;
25        width: 100%;
26        display: block;
27    }
28 ▼  #header {
29        clear: both;
30        float: left;
31        margin-left: 0;
32        width: 100%;
```

```css
28    #header {
29        clear: both;
30        float: left;
31        margin-left: 0;
32        width: 100%;
33        display: block;
34    }
35    #Nav {
36        clear: both;
37        float: left;
38        margin-left: 0;
39        width: 100%;
40        display: block;
41    }
42    #Teaser {
43        clear: none;
44        float: left;
45        margin-left: 4.1666%;
46        width: 100%;
47        display: block;
48    }
49    #About {
50        clear: none;
51        float: left;
52        margin-left: 4.1666%;
53        width: 100%;
54        display: block;
55    }
56    #Article {
57        clear: none;
58        float: left;
59        margin-left: 4.1666%;
```

```css
56    #Article {
57        clear: none;
58        float: left;
59        margin-left: 4.1666%;
60        width: 100%;
61        display: block;
62    }
63    #Footer {
64        clear: both;
65        float: left;
66        margin-left: 0;
67        width: 100%;
68        display: block;
69    }
70
71    /* Tablet Layout: 481px to 768px. Inherits styles from: Mobile Layout. */
72
73    @media only screen and (min-width: 481px) {
74    .gridContainer {
75        width: 90.675%;
76        padding-left: 1.1625%;
77        padding-right: 1.1625%;
78    }
79    #LayoutDiv1 {
80        clear: both;
81        float: left;
82        margin-left: 0;
83        width: 100%;
84        display: block;
85    }
86    #header {
87        clear: both;
```

```css
}
#header {
    clear: both;
    float: left;
    margin-left: 0;
    width: 100%;
    display: block;
}
#Nav {
    clear: both;
    float: left;
    margin-left: 0;
    width: 100%;
    display: block;
}
#Teaser {
    clear: none;
    float: left;
    margin-left: 2.5641%;
    width: 48.7179%;
    display: block;
}
#About {
    clear: none;
    float: left;
    margin-left: 2.5641%;
    width: 35.8974%;
    display: block;
}
#Article {
    clear: none;
    float: left;
    margin-left: 2.5641%;
```

```css
    }
#Article {
    clear: none;
    float: left;
    margin-left: 2.5641%;
    width: 100%;
    display: block;
}
#Footer {
    clear: both;
    float: left;
    margin-left: 0;
    width: 100%;
    display: block;
}
}

/* Desktop Layout: 769px to a max of 1232px.  Inherits styles from: Mobile Layout and
   Tablet Layout. */

@media only screen and (min-width: 769px) {
.gridContainer {
    width: 88.5%;
    max-width: 1232px;
    padding-left: 0.75%;
    padding-right: 0.75%;
    margin: auto;
}
#LayoutDiv1 {
    clear: both;
    float: left;
    margin-left: 0;
    width: 100%;
```

```css
#LayoutDiv1 {
    clear: both;
    float: left;
    margin-left: 0;
    width: 100%;
    display: block;
}
#header {
    clear: both;
    float: left;
    margin-left: 0;
    width: 100%;
    display: block;
}
#Nav {
    clear: both;
    float: left;
    margin-left: 0;
    width: 100%;
    display: block;
}
#Teaser {
    clear: both;
    float: left;
    margin-left: 0;
    width: 32.2033%;
    display: block;
}
#About {
    clear: none;
    float: left;
    margin-left: 1.6949%;
```

```css
    width: 100%;
    display: block;
}
#Teaser {
    clear: both;
    float: left;
    margin-left: 0;
    width: 32.2033%;
    display: block;
}
#About {
    clear: none;
    float: left;
    margin-left: 1.6949%;
    width: 23.7288%;
    display: block;
}
#Article {
    clear: none;
    float: left;
    margin-left: 1.6949%;
    width: 40.6779%;
    display: block;
}
#Footer {
    clear: both;
    float: left;
    margin-left: 0;
    width: 100%;
    display: block;
}
```
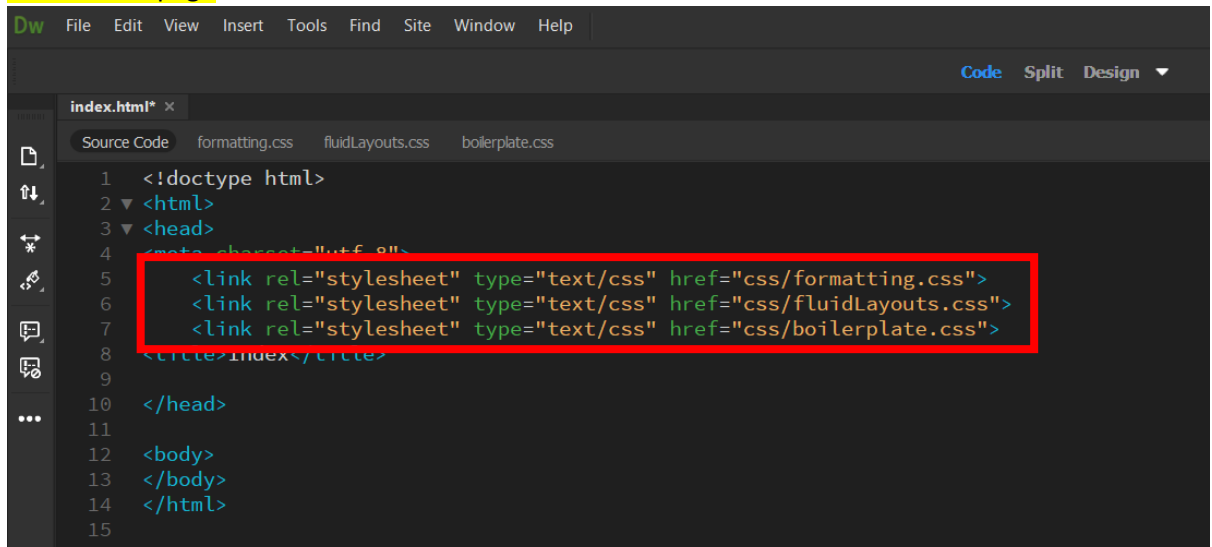
Part B(create html)

1. Create new document (file > new > html)
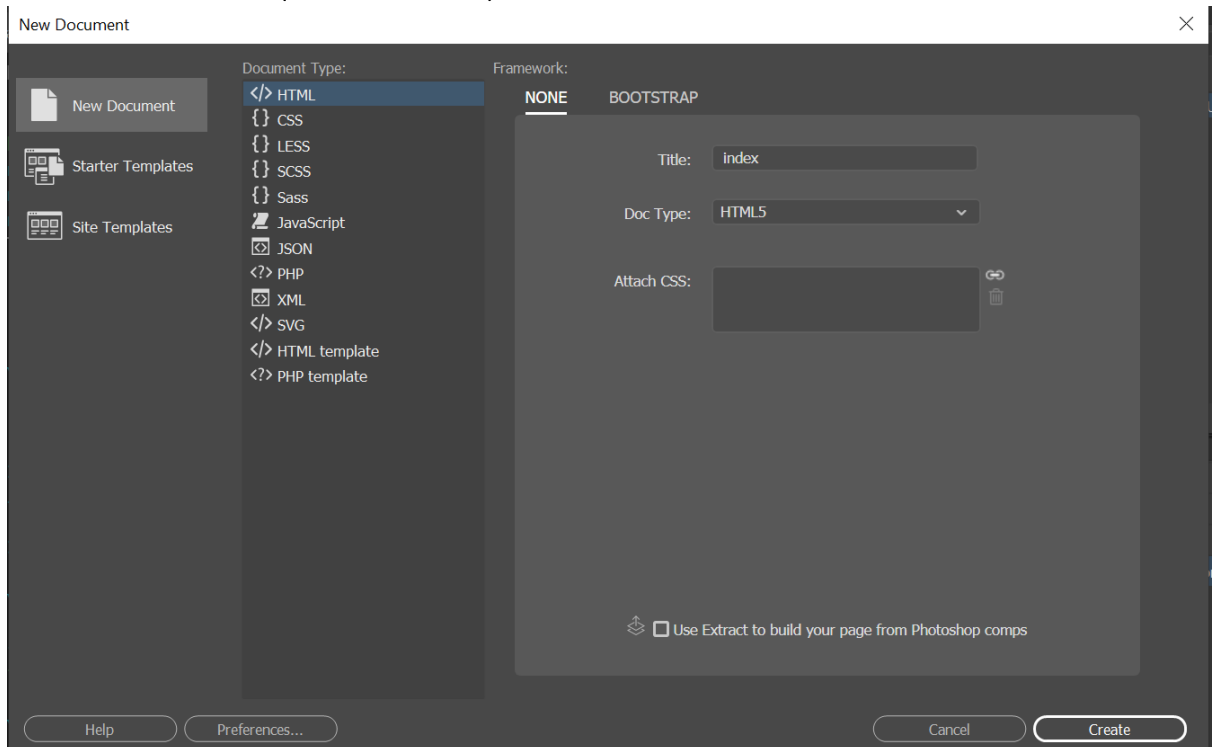
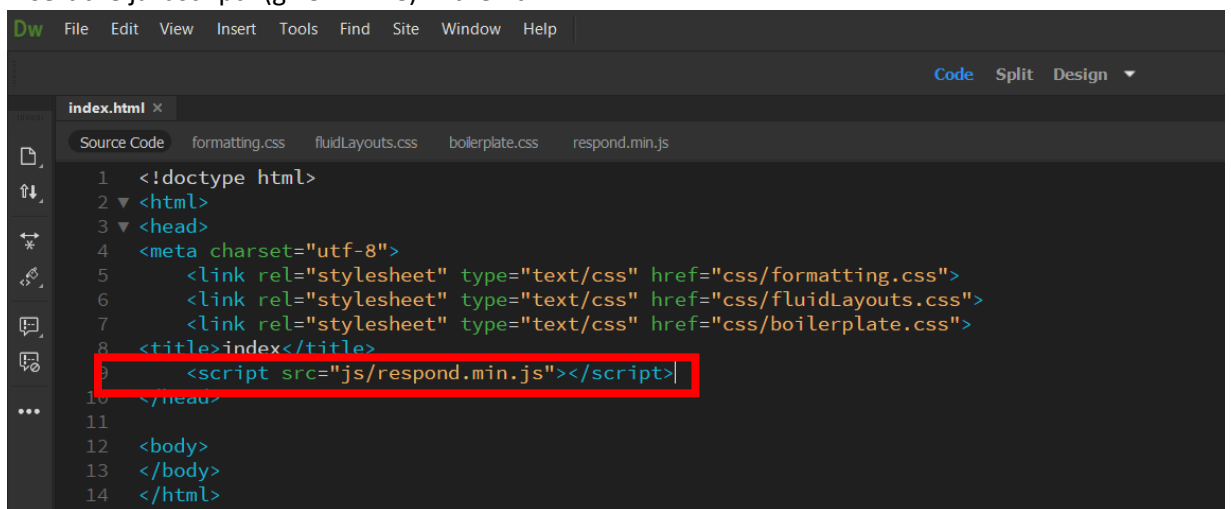2. Create a new site and link it to the folder and press save(site > new site)
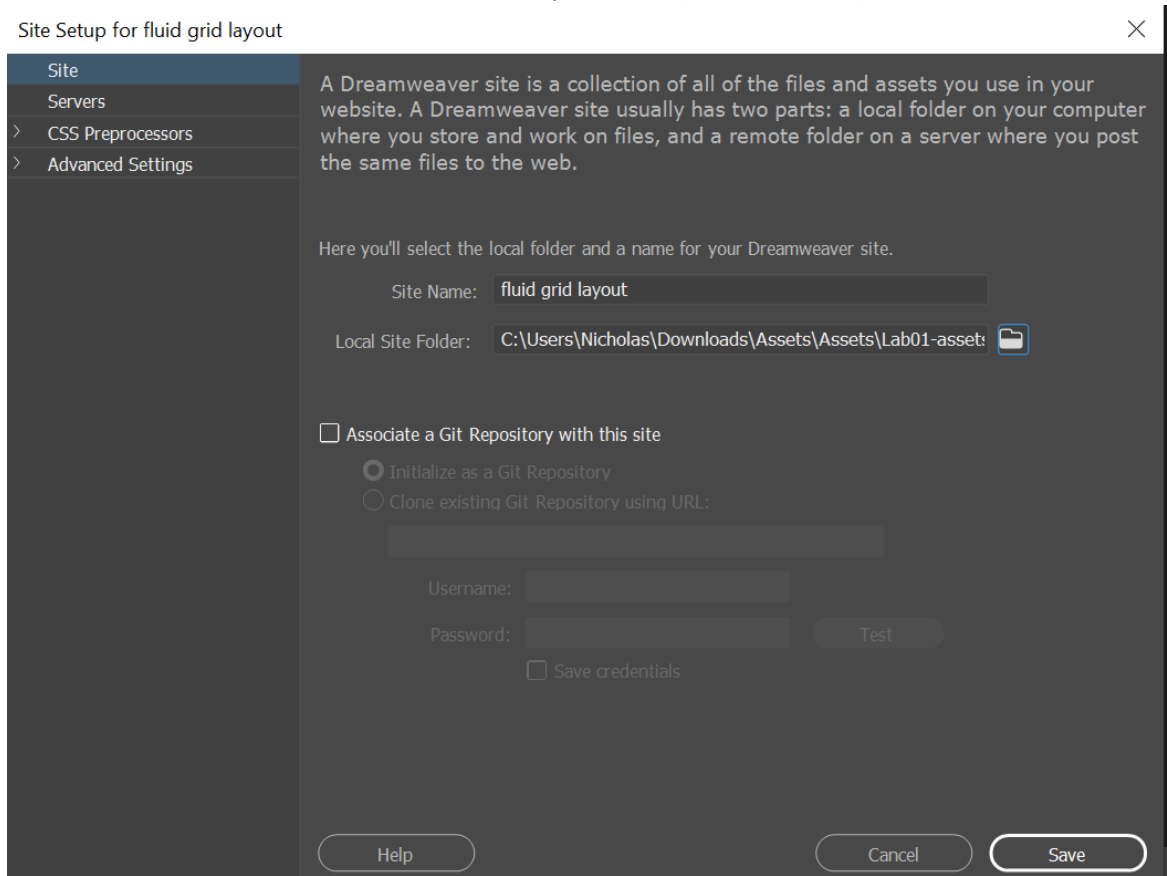
3. Link all the 3 css : fluidLayout.css, boilerplate.css & formatting.css(from folder mr dan give) to the index page

4. Insert the javascript (given in file) in the html

5. Add the following codes into <body>

```html
<body>
    <div class="gridContainer clearfix">
        <div id="header">
        </div>
    <div id="nav">
        </div>
            <div id="Teaser">
            </div>
            <div id="About">
            </div>
            <div id="Article">
            </div>
            <div id="Footer">
            </div>
    </div>
</body>
```

6. Adding the menu bar in the nav ID

```html
<div id="nav">
    <p><a href="#Teaser">Seeds</a> | <a href="#About">Gardens</a> | <a
    href="#Article">Events</a> | <a href="#Footer">Contact</a></p>
    </div>
```

7. Adding the header in the header id(change the link of the image to logo.)

```html
<div class="gridContainer clearfix">
    <div id="header">
        <h1>Terrestrial Nursery <img src="../images/logo.png" alt="Terrestrial
        Nursery" /></h1>

    <h2>Specializing in cloning and hybrid plants</h2>
    </div>
```

8. Adding content for the first paragraph in the teaser id

```html
        <div id="Teaser">
            <h3>Custom Orders</h3>

<p><img src="../images/tree.png" alt="Exotic Tree" />Come visit the new greenhouse and
check out the colonies with our recently acquired exotic species.</p>
<p> If you need a specific type of plant for your landscaping project, we can create a
new cultivar to your specifications.</p>
<p>No project is too big or small. We can populate an entire botanical garden or
create a one-of-a-kind greenhouse. </p>
<p>Be the first to grow a tree of unknown origin.</p>
            </div>
```

9. Adding content for the second paragraph in the about id

```
<div id="About">
        <h3>Our Mission</h3>

<p>We pride ourselves on generating growing art and flora that are out of this world.
Our scientists and horticulturists are trained in the newest growth techniques and
equipment. We have been cultivating extraordinary plants and landscaping gardens for
over 90 years. We have 7 offices in North America, and botanical gardens in New York,
Oregon, and San Francisco. </p>
<p>We host events in cities nationwide to showcase our newest varieties and give you
an opportunity to see some of the plants in person.  Visit the Events page to find out
about upcoming events happening  in your location. </p>
    </div>
```

10. Adding content for the third paragraph in the article id

```
<div id="Article">
        <h3>Cloning species</h3>

<p>Horticulture cloning refers to generating descendants of a single plant by
vegetative reproduction. Many horticultural plant cultivars are clones, that have been
derived from a single individual, and then multiplied by a process other than sexual
reproduction. For example, some strains of European grapes are clones that have been
propagated for over two millennia. Other examples of clones are the potato and banana
plants. </p>
<p>Grafting is a technique that is similar to cloning, because the shoots and branches
from the graft result in the creation of a genetic clone of a single individual plant.
However, this type of cloning is typically classified as an entirely different kind of
operation.</p>
    </div>
```
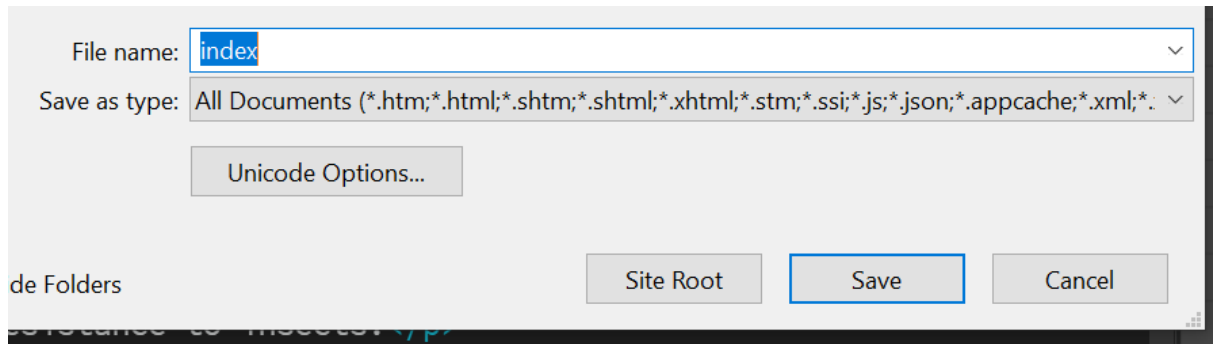
11. Adding content for the footer in the footer id

```
<div id="Footer">
        <h4>We're here to help</h4>

    <p><a href="#">Contact us</a> to learn more about plant conservation, landscape
    restoration, landscaping, garden design, tree trimming and shrub maintenance. Our
    staff is experienced in plant propagation and cultivation to improve plant growth,
    yields, quality, and resistance to insects.</p>
    </div>
```

12. Save as index.html

13. Rename the whole folder to indexno_name_lab1

14. Final results:
Previewing the fluid layout
To test the three layouts, you need to resize your browser window to simulate how the layout adjusts when viewed on screens with varying widths:

Choose File > Preview In Browser. The index.html page loads in your default browser.

Click the maximize button to expand the browser window to its widest width. This replicates the way the desktop layout will appear. Notice that the center of the page displays three columns of content.

Web view
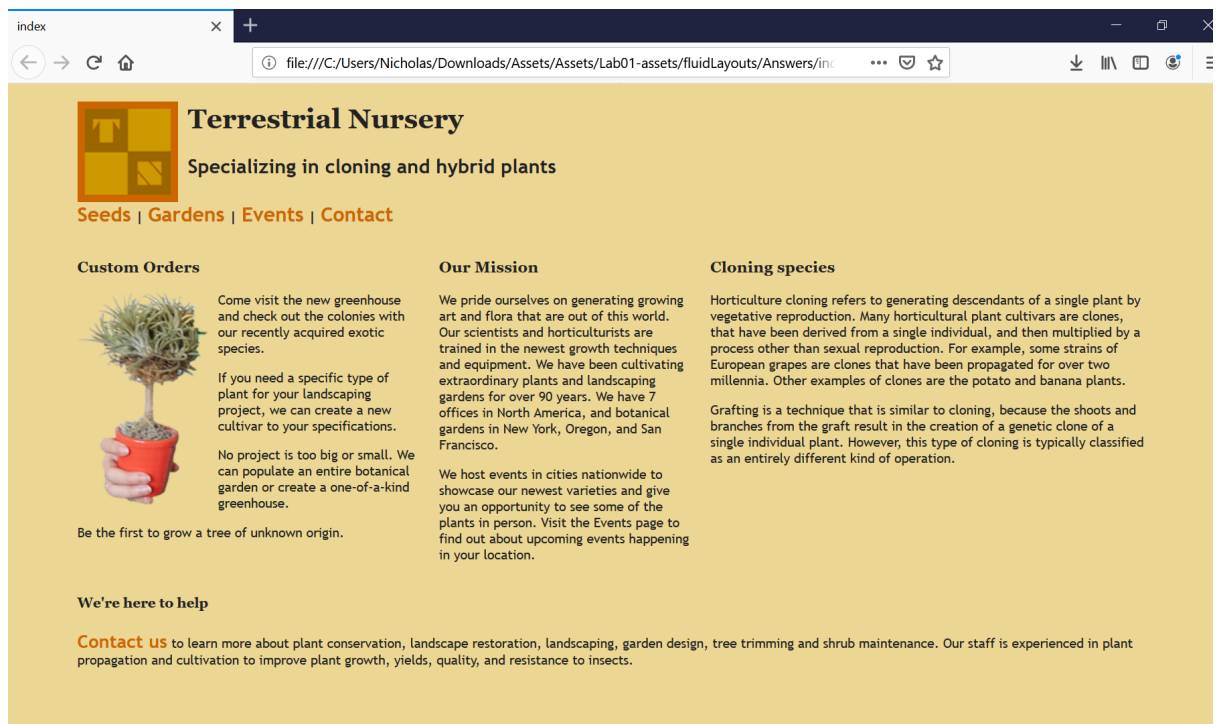
Click and drag the lower right handle of the browser window to the left to slowly reduce the width of the browser window. When the window reaches 768 pixels (the targeted width for the tablet layout), the Article container moves below the Teaser and About containers to display a two-column layout.

Tablet view
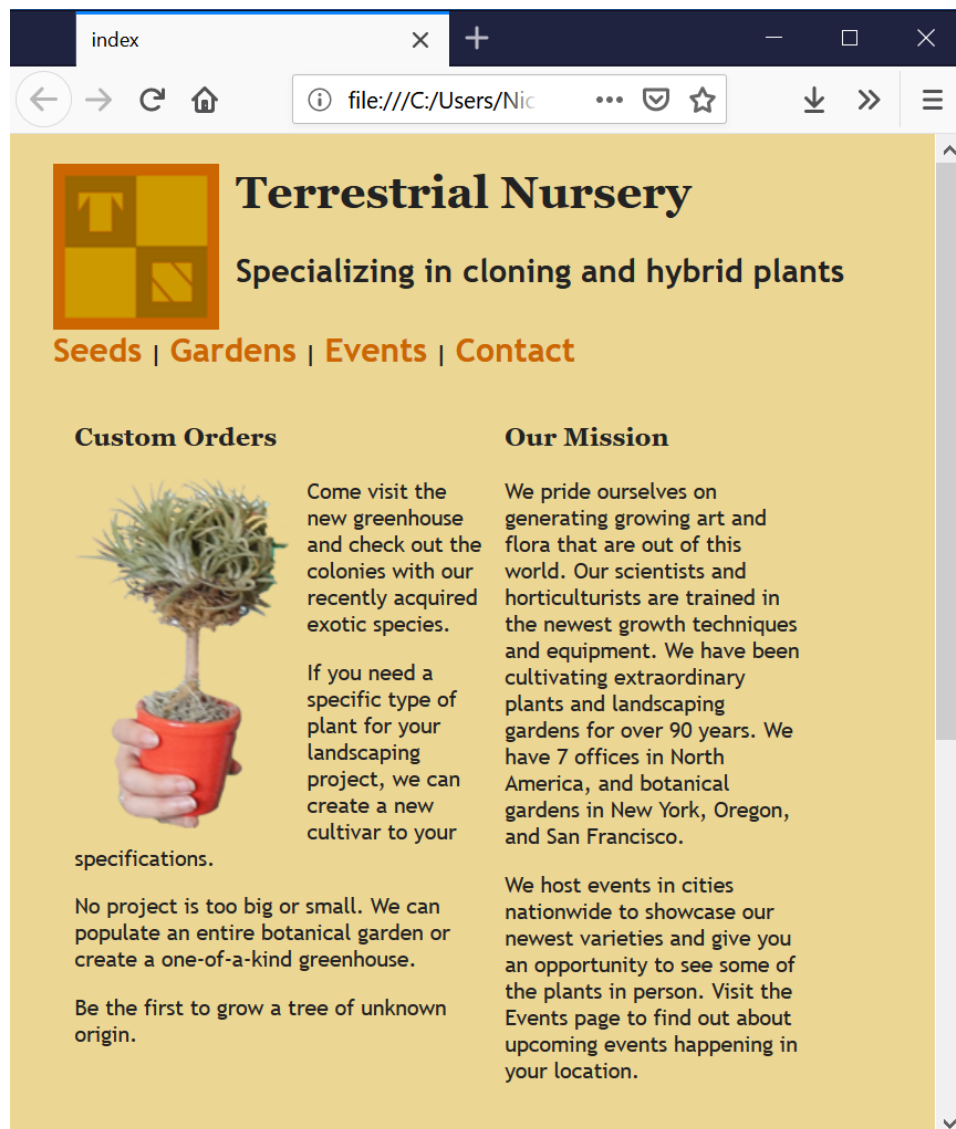
Continue resizing the browser window to narrow the width. When the window width reaches 480 pixels, the mobile layout is displayed. In this layout, each div container displays its content on a new row, rather than displaying any columns.

Mobile